

HIGH PURITY NORTHWEST INC.

Phosphate Ester Purification Solutions

High Purity Northwest offers several filtration and purification options for keeping your phosphate ester fluid in pristine condition.

Phosphate esters are hygroscopic, meaning that they attract and hold water molecules from their surroundings. Water reacts with the base product forming phosphate acid and alcohols. Increased total acid number (TAN) commonly results in system corrosion and erosion of sensitive parts.

Removing water on an ongoing basis is the based preventive action. The Thermo-Vac Super Mini, vacuum dehydrator, for Phosphate Ester applications removes free, emulsified and dissolved water.

THERMO-VAC SUPER MINI

The Thermo-Vac Super Mini is the perfect solution for most phosphate ester reservoir sizes. It features a stainless steel vacuum chamber and condensate tank. The permanent stainless steel packing material within the vacuum chamber creates massive surface area for efficient water removal. The 3 micron absolute ($\beta 3[c] \geq 1000$ per ISO 16889) removes solid contamination to an ISO Cleanliness Code 15/13/11 or better. Fullers Earth, Activated Alumina or Ion Charge Bonding is available for TAN reduction.

All components are piped together using stainless steel hydraulic tubing. EPDM seal material is used where possible (EPR is secondary material).



Skydrol®
HyJet™
Fyrquel®
Pyrogard™



Online Laser Particle Detector -
ISO4406:99, NAS 0-12 &
Moisture in %RS all in One Device

STANDARD FEATURES

- 3 GPM Process Rate
- Stainless Steel Vacuum Chamber
- Air Cooled Condenser
- Stainless Steel Condensate Tank
- Low Watt Density Heater
- 7 CFM @ 29" Hg. Rotary Vane Vacuum Pump
- NEMA-4 Control Panel
- Vacuum Gauges
- Portable Base with Drip Lip
- Hose & Cable Rack
- EPDM/EPR Seals

OPTIONAL FEATURES

- Stainless Steel Process Tank
- Large Filter Housings
- Coreless Filter Elements
- Online Laser Particle Detector



Filter Cart

Larger Thermo-Vac Systems Available



Gen 2 Thermo-Vac

FTC FILTER CART

For instances when just particulate removal is required, we offer our FTC filter cart. This filter cart features a robust filter housing with swing bolt closure and a coreless micro-glass filter element with internal bypass valve. All components are piped together using stainless steel hydraulic tubing and mounted on a heavy duty portable base with puncture resistant, semi-pneumatic wheels. Seal material is EPDM where ever possible and EPR as a secondary material.

STANDARD FEATURES

- 5 GPM Gear Pump
- 1 HP TEFC Motor
- Robust Carbon Steel Filter Housing
- 5" x 18" Coreless Microglass Filter Element with Internal Bypass Valve
- Motor / Starter Switch
- Differential Pressure Gauge for Dirty Filter Indication
- Heavy Duty Base with Drip Lip
- Semi-Pneumatic Wheels
- Stainless Steel Fill Wand



www.highpuritynorthwest.com | sales@hpnwinc.com Local: (206)

782-2388 | Toll free: (866) 220-5118

2031 196th St. SW Ste. B102, Lynnwood, WA 98036